

***LineUp With Math™* Alignment**
Nebraska Mathematics Standards – Dec. 2000

12.2 COMPUTATION/ESTIMATION

Standard

12.2.1 By the end of twelfth grade, students will solve theoretical and applied problems using numbers in equivalent forms, radicals, exponents, scientific notation, absolute values, fractions, decimals, and percents, ratios and proportions, order of operations, and properties of real numbers.

LineUp With Math™ Activities

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

12.2.2 By the end of twelfth grade, students will justify solutions to mathematical problems.
 Example indicator:
 • Write an explanation based on the context of the problem stating why the solution is reasonable.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

12.4 GEOMETRY/SPATIAL CONCEPTS

Standard

12.4.2 By the end of twelfth grade, students will create geometric models to describe the physical world.
 Example indicators:
 • Create perspective drawing.
 • Create scale models.

LineUp With Math™ Activities

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

-- Predict and plot the relative motion of two or more airplanes on given paths.